





Site Property created from Arcadis CAD drawings received December 2015.
 United States Geological Survey topographic maps accessed via ArcGIS Online
 and provided by National Geographic Society and i-cubed on 27 December 2017.
 Morristown (1982) and Chatham (1982) quadrangles are shown.

2,000 1,000 0 2,000 Feet



Legend

-  Edge of landfilled wastes (dashed where approximate)
-  Waste and debris observed on ground surface but not observed or anticipated below ground surface

Site Location

ROLLING KNOLLS LANDFILL SUPERFUND SITE
 CHATHAM, NEW JERSEY

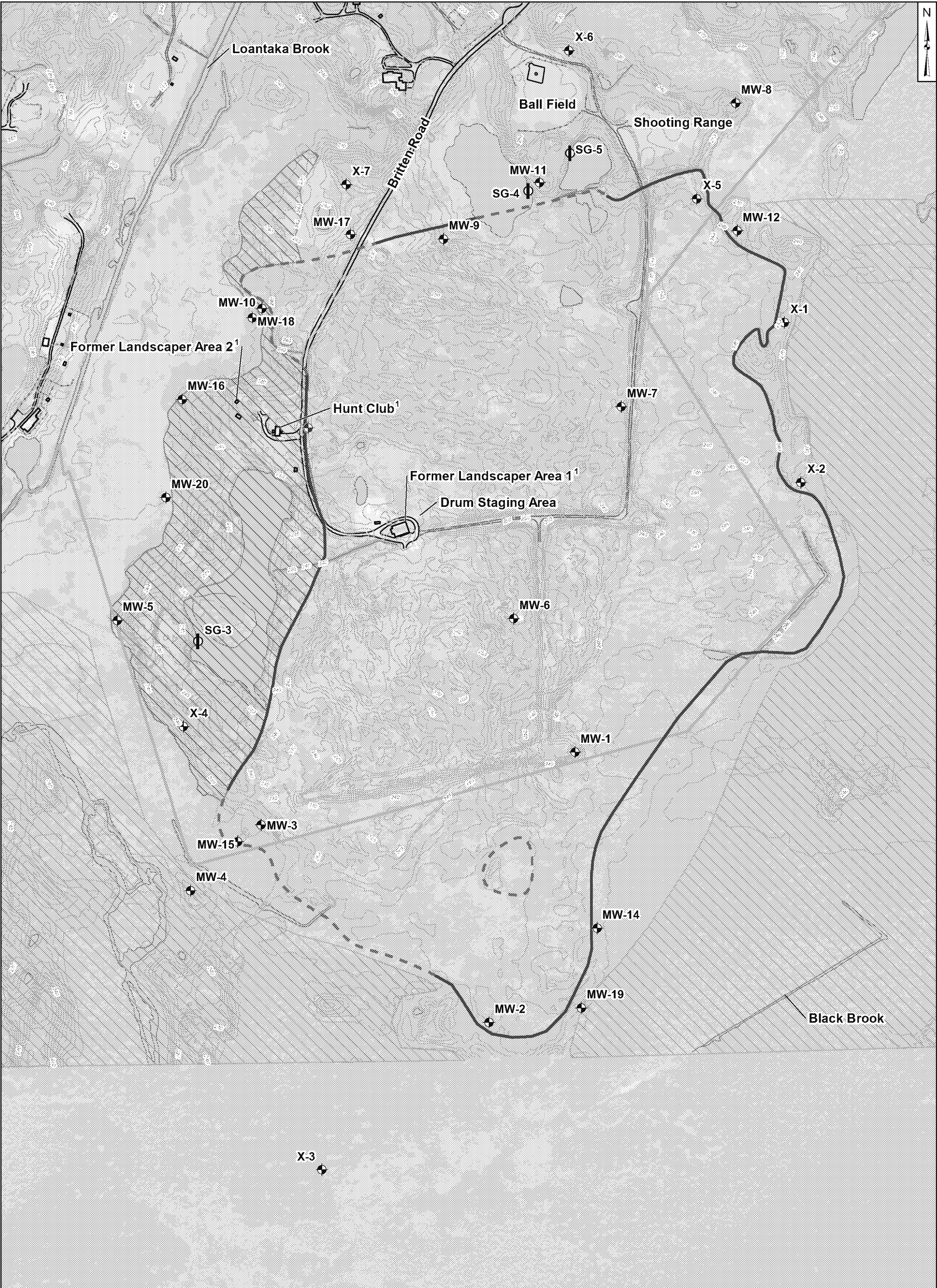
Geosyntec
 consultants

Figure

1-1

Princeton, NJ

May 2018



Note 1: These features to be removed from landfill area prior to completion of soil remedy.
Site Plan created from Arcadis CAD drawings received December 2015.
Aerial imagery accessed via ArcGIS Online and provided by the United States Department of Agriculture on 12 March 2018.
Image is dated 31 July 2015.

Legend	
	Non-Potable Supply Well
	Monitoring Well Location
	Staff Gauge Location
	Edge of landfilled wastes (dashed where approximate)
	Great Swamp National Wildlife Refuge property boundary
	Areas where surface water flow does not exhibit typical bed and bank morphology
	Waste and debris observed on ground surface but not observed or anticipated below ground surface
	Open water

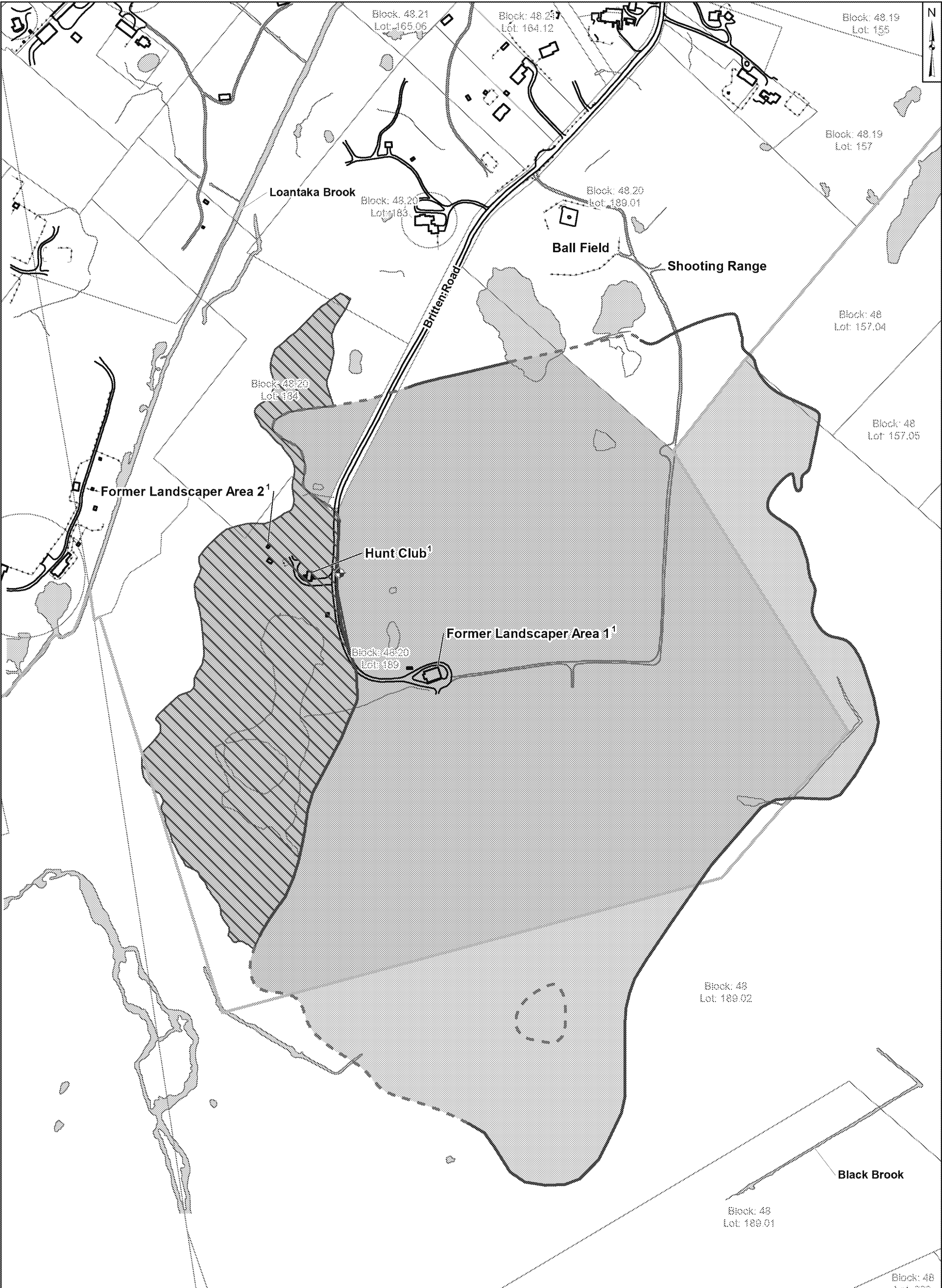
4002000400 Feet

Site Plan
ROLLING KNOLLS LANDFILL SUPERFUND SITE
CHATHAM, NEW JERSEY

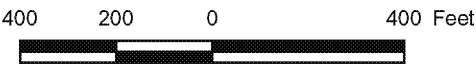
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Princeton, NJMay 2018

Figure 1-2



Note 1: These features to be removed from landfill area prior to completion of soil remedy.
Parcel data provided by Morris County, GIS. 2 August 2016. Site Plan created from Arcadis CAD drawings received December 2015.



Legend

- Edge of landfilled wastes (dashed where approximate)
- Great Swamp National Wildlife Refuge property boundary
- Waste and debris observed on ground surface but not observed or anticipated below ground surface
- Open water
- Property Parcel

- Block 48.20, Lot 183 (Owned by David M. Bakunas [Trustee])
- Block 48.20, Lots 184 and 189 (Owned by Robert J. Miele [Trustee])
- Block 48.20, Lot 189.01 (Owned by Green Village Fire Department)
- Great Swamp National Wildlife Refuge (Owned by the United States Fish and Wildlife Service)

Property Ownership

ROLLING KNOLLS LANDFILL SUPERFUND SITE
CHATHAM, NEW JERSEY

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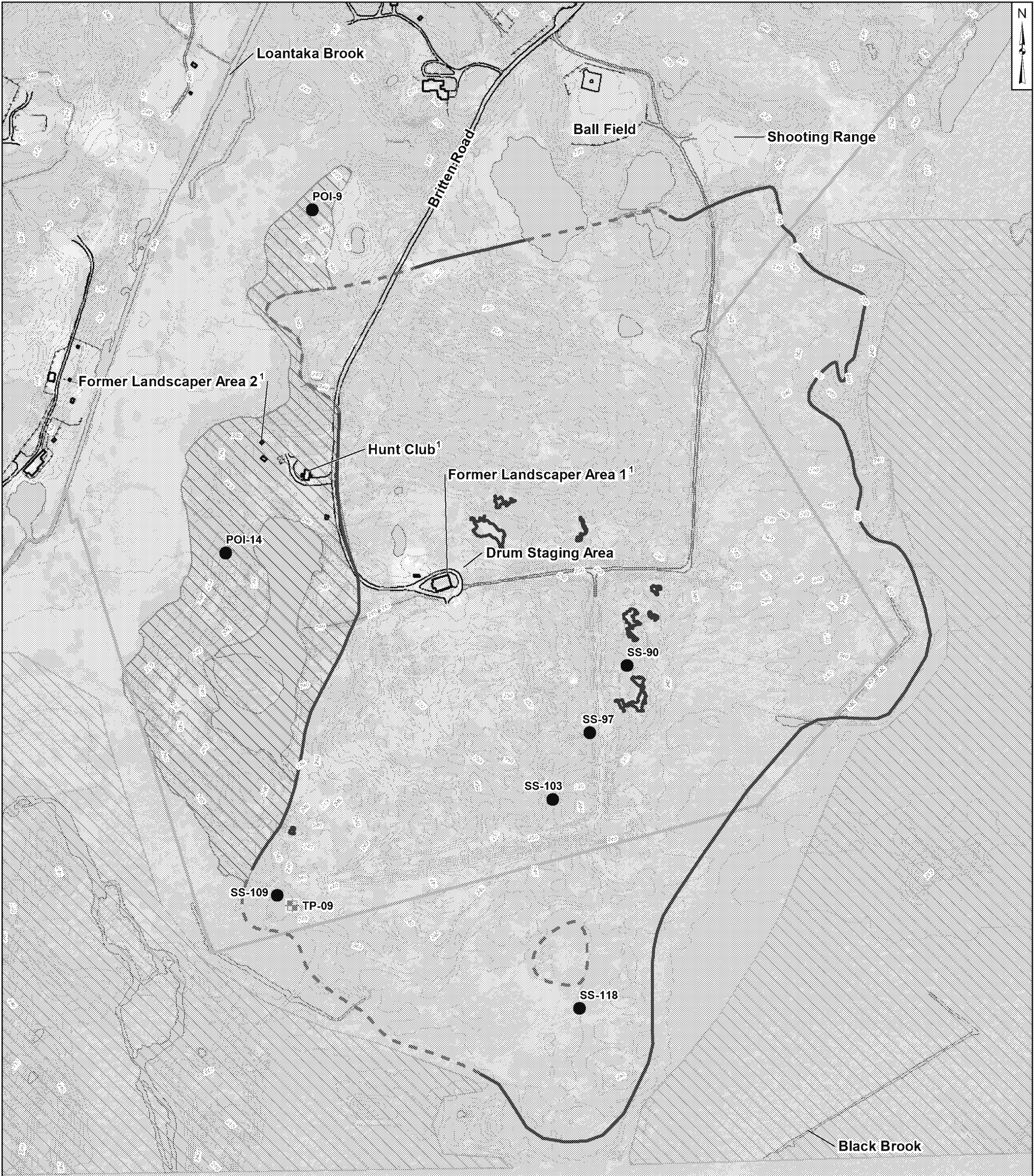
May 2018

Figure
2-1



Note 1: These features to be removed from landfill area prior to completion of soil remedy.
Site Plan created from Arcadis CAD drawings received December 2015.
Aerial imagery accessed via ArcGIS Online and provided by the United States Department of Agriculture on 27 December 2017. Image is dated 31 July 2015.

Legend	
<ul style="list-style-type: none">Groundwater Sample LocationGroundwater and Soil Sample LocationSediment Sample LocationSoil Sample LocationSoil and Tissue Sample LocationSurface Water Sample LocationTest Pit Sample LocationTissue Sample LocationPorewater Sample Location	<ul style="list-style-type: none">Edge of landfilled wastes (dashed where approximate)Great Swamp National Wildlife Refuge property boundaryAreas where surface water flow does not exhibit typical bed and bank morphologyWaste and debris observed on ground surface but not observed or anticipated below ground surfaceOpen water
<div>400 200 0 400 Feet</div> <div>Sample Location Map ROLLING KNOLLS LANDFILL SUPERFUND SITE CHATHAM, NEW JERSEY</div> <div>Geosyntec consultants</div> <div>Princeton, NJ May 2018</div> <div>Figure 2-2</div>	



Note 1: These features to be removed from landfill area prior to completion of soil remedy.
Site Plan created from Arcadis CAD drawings received December 2015.
Aerial imagery accessed via ArcGIS Online and provided by the United States Department of Agriculture on 2 May 2018.
Image is dated 31 July 2015.

Legend

●

Areas of Particular Concern
(to be capped or excavated) (7)

■

Potential Source Area to be Removed (1)

—

Areas Determined to be Mostly
Non-Vegetated During Field
Inspection

Edge of landfilled wastes (dashed where
approximate)

.....

Great Swamp National Wildlife Refuge
property boundary

▨

Areas where surface water flow does not
exhibit typical bed and bank morphology

▧

Waste and debris observed on ground
surface but not observed or anticipated
below ground surface

■

Open water

4002000400 Feet

Location of APCs and
Mostly Non-Vegetated Areas

ROLLING KNOLLS LANDFILL SUPERFUND SITE
CHATHAM, NEW JERSEY

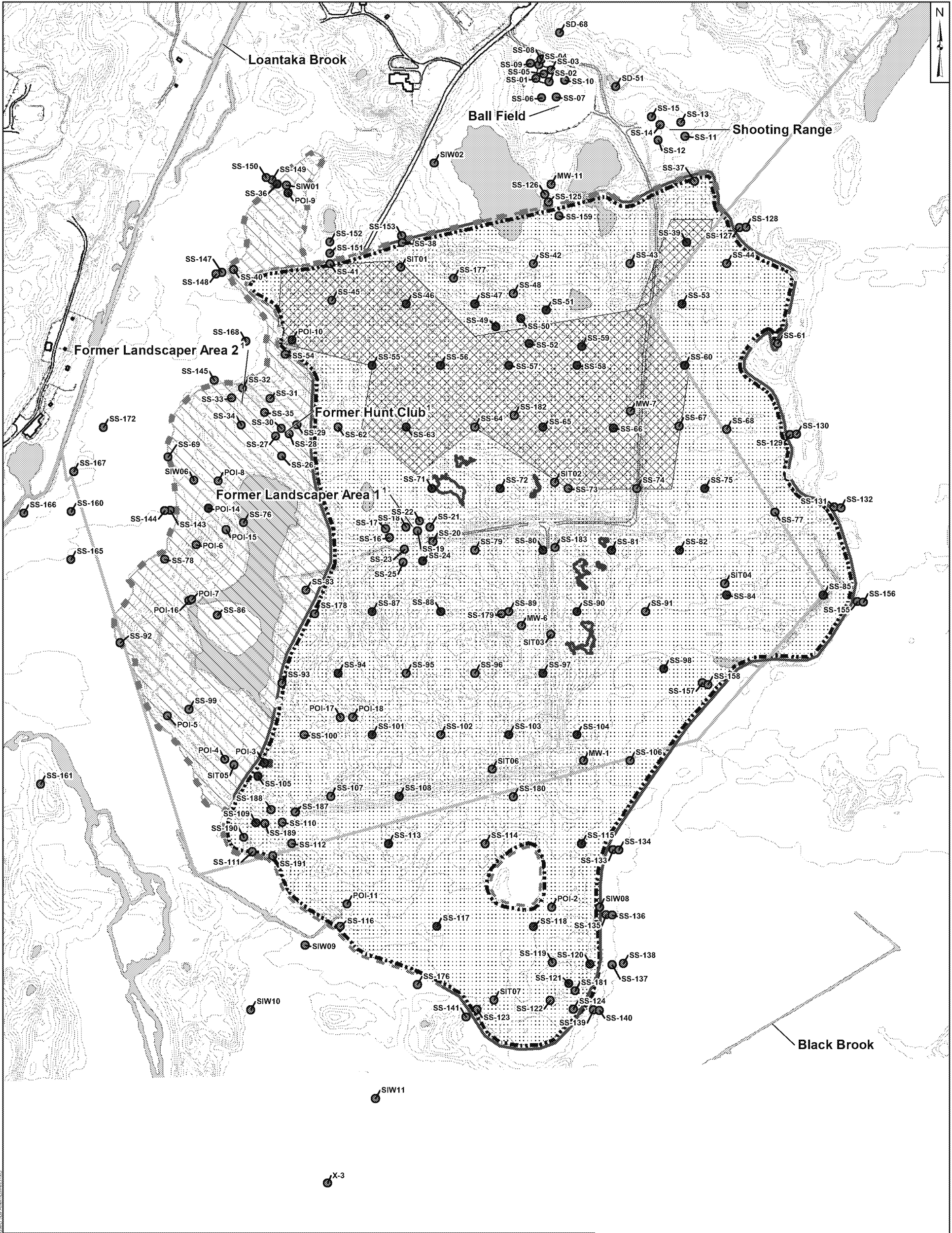
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Figure
5-1

May 2018

ED_004977_00001570-00005



1) Note 1: These features to be removed from landfill area prior to completion of soil remedy.

2) The area to be capped (Alternative 3) or excavated (Alternative 4) was determined based on a risk-based concentration developed as discussed in Appendix B of this Feasibility Study Report.

3) PRGs - Preliminary Remediation Goal

4) Site Plan created from Arcadis CAD drawings received December 2015.

Legend

- Soil Sample Location Exceeding PRG
- Soil Sample Locations Not Exceeding PRG
- Areas Determined to be Mostly Non-Vegetated During Field Inspection
- Edge of landfilled wastes (dashed where approximate)
- Great Swamp National Wildlife Refuge property boundary
- Access Control Fence (Alternative 2)

- ▨ Area to be Capped (under Alternative 3) or Excavated (under Alternative 4)
- ▩ Area to be Excavated (Alternative 5)
- ▨ Waste and debris observed on ground surface but not observed or anticipated below ground surface
- ▨ Open water

4002000400 Feet

Soil Samples Exceeding the Preliminary Remediation Goals and Proposed Soil Alternatives

ROLLING KNOLLS LANDFILL SUPERFUND SITE
CHATHAM, NEW JERSEY

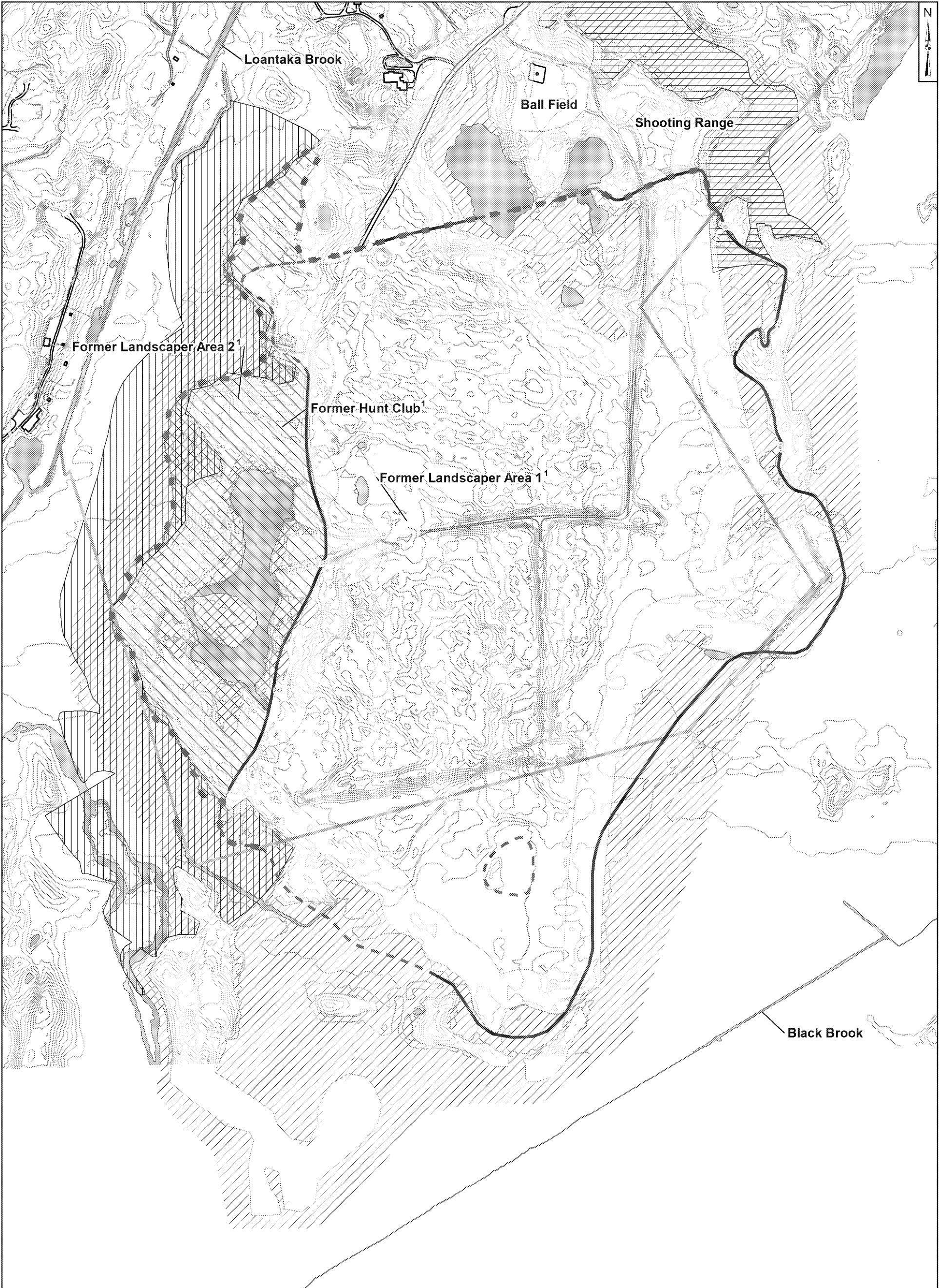
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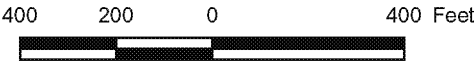
Figure 5-2

May 2018

ED_004977_00001570-00006



Note 1: These features to be removed from landfill area prior to completion of soil remedy.
Site Plan created from Arcadis CAD drawings received December 2015.



- Legend**

 - Access Control Fence
 - Edge of landfilled wastes (dashed where approximate)
 - Great Swamp National Wildlife Refuge property boundary
 - NHDFlowline
- Potential Bog Turtle Habitat Area
 - Potential Bog Turtle Habitat Area
 - Waste and debris observed on ground surface but not observed or anticipated below ground surface
 - Wetland
 - 150-foot Wetland Transition Area
 - Open water

Conceptual Plan of Soil Alternative 2

ROLLING KNOLLS LANDFILL SUPERFUND SITE
CHATHAM, NEW JERSEY

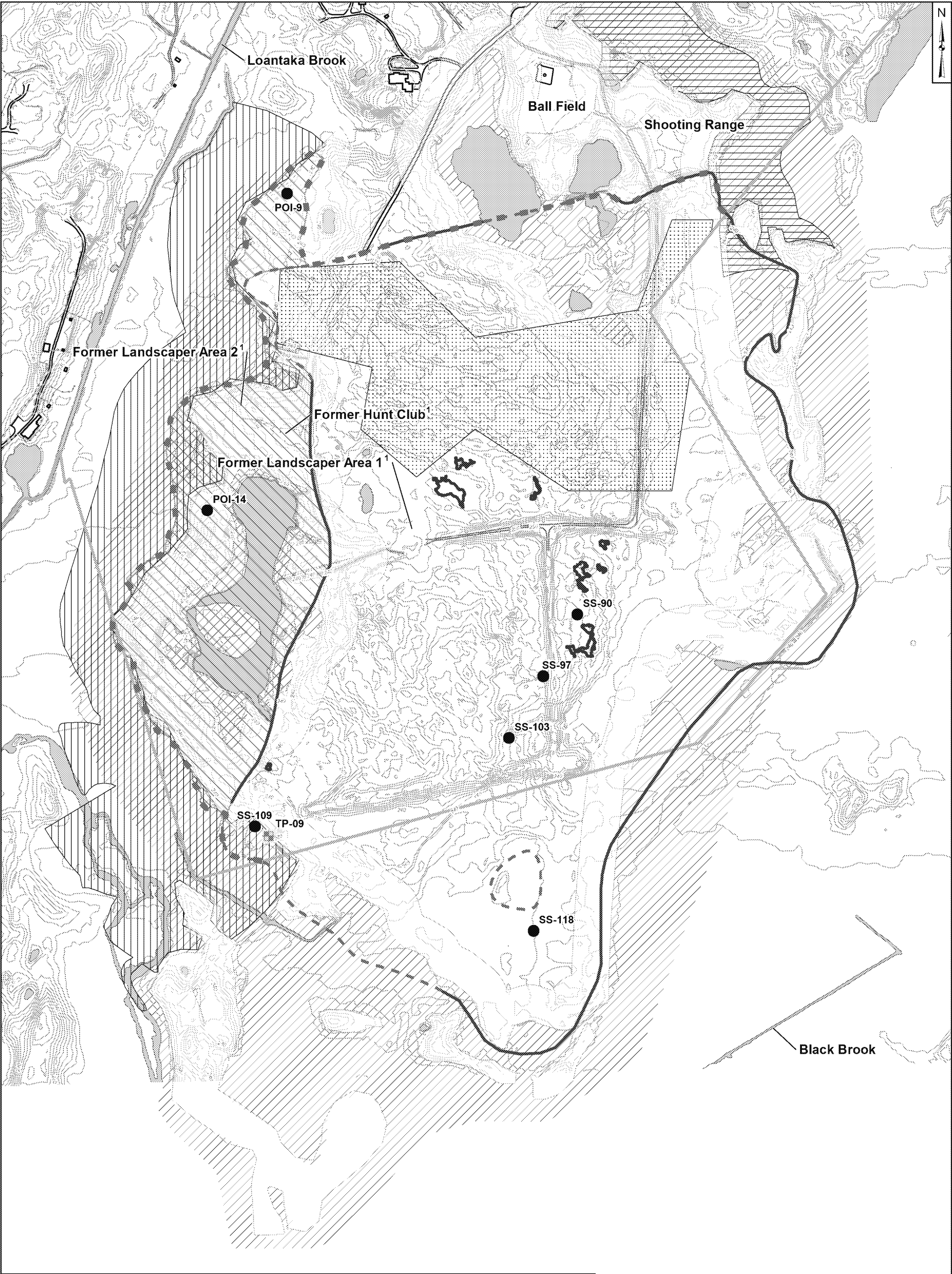
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Figure
6-1

Rolling Knolls Landfill Superfund Site, Chatham, New Jersey
Geosyntec Consultants, Inc.
Conceptual Plan of Soil Alternative 2



Note 1: These features to be removed from landfill area prior to completion of soil remedy.
The area to be capped (Alternative 3) or excavated (Alternative 4) was determined based on a risk-based concentration developed as discussed in Appendix B of this Feasibility Study Report.
Site Plan created from Arcadis CAD drawings received December 2015.

Legend

- Areas of Particular Concern (to be capped or excavated)
- ▣ Potential Source Area to be Removed
- ▤ Areas Determined to be Mostly Non-Vegetated During Field Inspection
- ▧ Access Control Fence

- Edge of landfilled wastes (dashed where approximate)
- Great Swamp National Wildlife Refuge property boundary
- ▣ Area to be Capped (under Alternative 3) or Excavated (under Alternative 4)

- ▤ Potential Bog Turtle Habitat Area
- ▥ Potential Bog Turtle Habitat Area
- ▧ Waste and debris observed on ground surface but not observed or anticipated below ground surface
- ▨ Wetland
- ▩ 150-foot Wetland Transition
- Open water

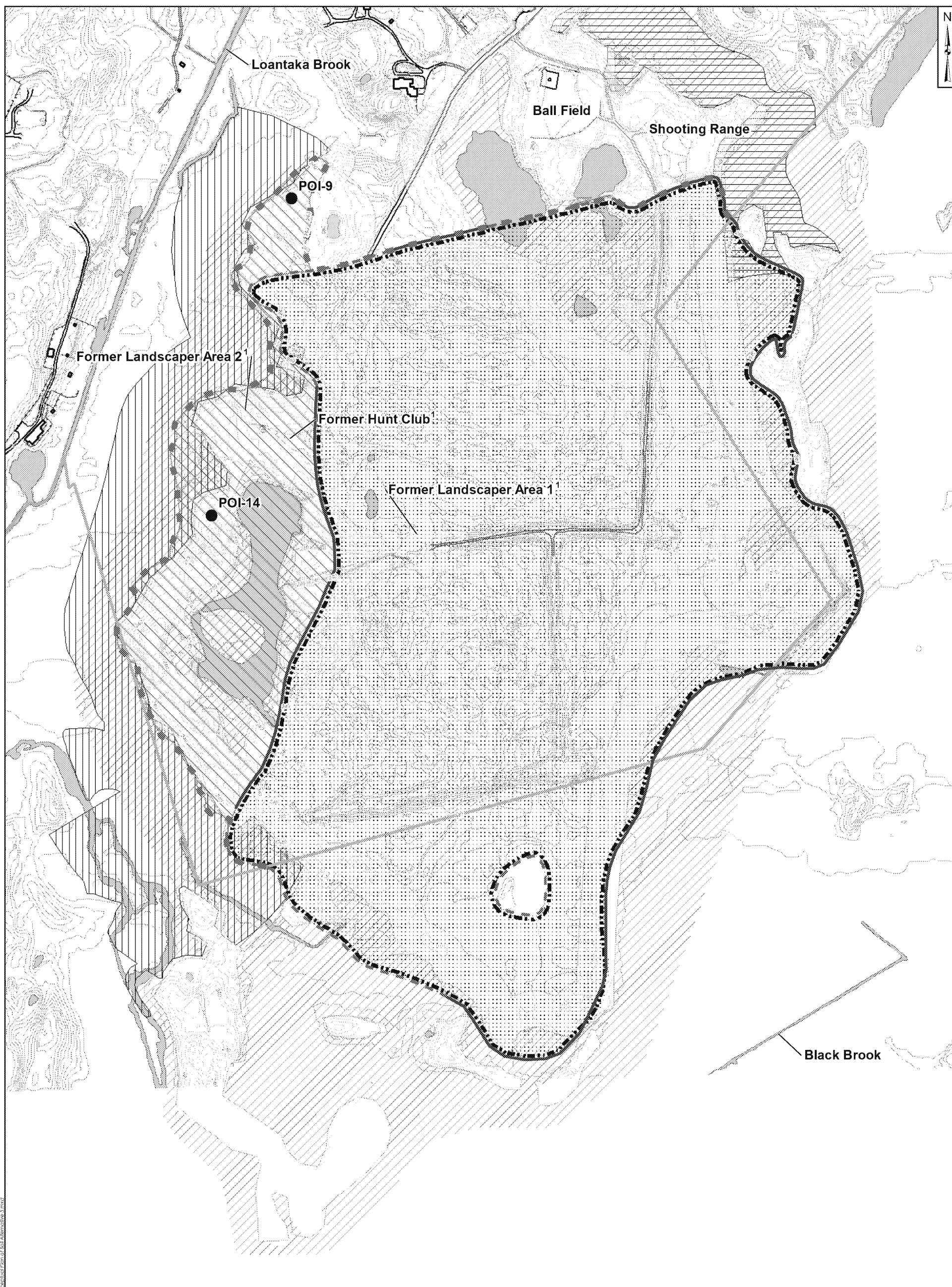
4002000400 Feet

Conceptual Plan of Soil Alternatives 3 and 4
ROLLING KNOLLS LANDFILL SUPERFUND SITE
CHATHAM, NEW JERSEY

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









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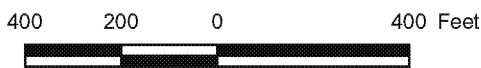
Figure 6-2



Note 1: These features to be removed from landfill area prior to completion of soil remedy.
Site Plan created from Arcadis CAD drawings received December 2015.

Legend

- | | | | |
|---|--|---|--|
|  | Areas of Particular Concern
(to be excavated) |  | Potential Bog Turtle Habitat Area |
|  | Access Control Fence |  | Potential Bog Turtle Habitat Area |
|  | Edge of landfilled wastes (dashed where approximate) |  | Waste and debris observed on ground surface but not observed or anticipated below ground surface |
|  | Great Swamp National Wildlife Refuge property boundary |  | Wetland |
|  | Limit of Proposed Cap |  | 150-foot Wetland Transition Area |
| | |  | Open water |



Conceptual Plan of Soil Alternative 5

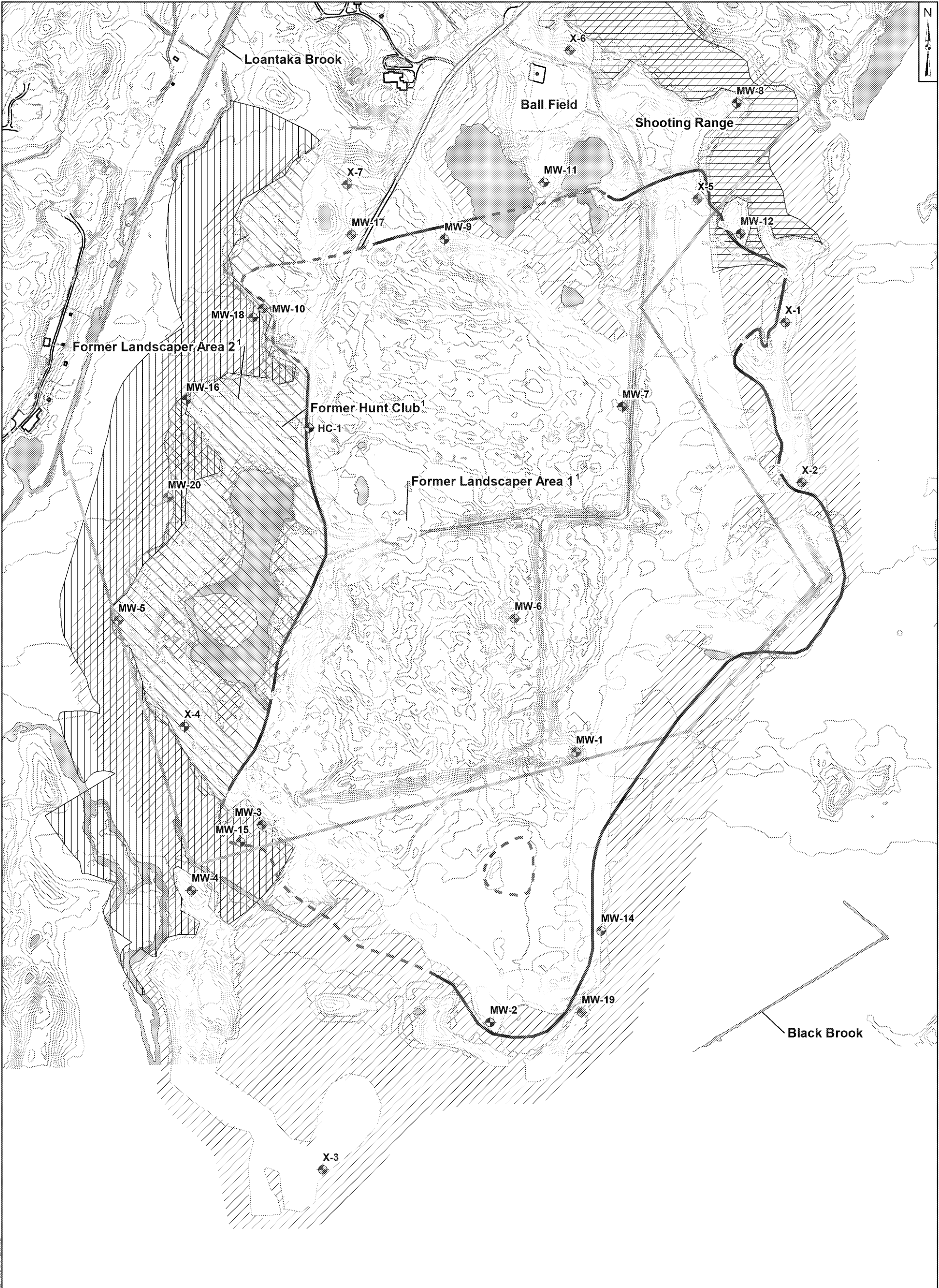
ROLLING KNOLLS LANDFILL SUPERFUND SITE
CHATHAM, NEW JERSEY

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Figure
6-3



Note 1: These features to be removed from landfill area prior to completion of soil remedy.
Site Plan created from Arcadis CAD drawings received December 2015.

- Legend**

 - Monitoring Well Potentially Requiring Treatment
 - Non-Potable Supply Well
 - Monitoring Well
 - Edge of landfilled wastes (dashed where approximate)
- Great Swamp National Wildlife Refuge property boundary
 - Potential Bog Turtle Habitat Area A
 - Potential Bog Turtle Habitat Area B
- Waste and debris observed on ground surface but not observed or anticipated below ground surface
 - Wetland
 - 150-foot Wetland Transition Area
 - Open water

4002000400 Feet

Conceptual Plan of Groundwater Alternatives 2 and 3

ROLLING KNOLLS LANDFILL SUPERFUND SITE

CHATHAM, NEW JERSEY

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Figure 7-1